

CLAIMS:

This listing of claims will replace the listing of claims in the application:

1. (currently amended) An extension piece [[(2)]] for a dental implant [[(1)]] with a head part [[(20)]] which serves as a basis for a retention element [[(7)]], and with a threaded stem [[(29)]] with which the extension piece [[(2)]] can be screwed into the dental implant [[(1)]], wherein the extension piece [[(2)]] has at least one reference form, in particular a reference surface [[(27b, 24)]], which defines the circumferential positioning of the extension piece [[(2)]] and via which the circumferential position of the extension piece can be transferred to a working model [[(M)]].

2. (currently amended) The extension piece [[(2)]] as claimed in claim 1, wherein the extension piece [[(2)]] has a mating shoulder [[(25)]] via which the extension piece [[(2)]] can be supported on an implant shoulder [[(10)]] of an implant, by which means the position of the extension piece in the axial direction can be transferred.

3. (currently amended) The extension piece [[(2)]] as claimed in claim 1 [[or 2]], wherein the extension piece [[(2)]] has a first contour [[(22)]] onto which a transfer aid [[(4)]] with a complementarily shaped second contour [[(45)]] can be clamped and/or snapped.

4. (currently amended) The extension piece as claimed in ~~one of claims 1 through 3~~ claim 1, wherein the head part [[(20)]] is of substantially cylindrical design, and wherein the reference surface [[(24)]] is formed by a cut surface of a semicircular cylinder [[(23)]] extending parallel to the screw axis [[(A)]] of the extension piece [[(2)]].

5. (currently amended) The extension piece as claimed in ~~one of claims 1 through 4~~ claim 1, wherein the extension piece [[(2)]] has a non-cylindrical outer contour

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with screw-in surfaces [[(21)]] via which the extension piece [[(2)]] can be screwed into an implant [[(1)]] with a tool [[(3)]] engaging on them.

6. (currently amended) The extension piece as claimed in claim 4 [[or 5]], wherein a bevel [[(27a)]] is provided in the area of the transition from the reference surface [[(24)]] to the outer surface[[(27b)]] of the semicircular cylinder [[(23)]].

7. (currently amended) The extension piece as claimed in ~~one of claims 1 through 7~~ claim 1, wherein the extension piece is made of a metallic, non-oxidizing, high-melting-point alloy, in particular of a composition of 60% Au, 19% Pt, 20% Pd, 1% Ir, the melting range being between 1400° and 1490° Celsius.

8. (currently amended) A transfer aid [[(4)]] for transferring the position of an implant [[(1)]] and of an extension piece [[(2)]], in particular as claimed in ~~one of claims 1 through 7~~ claim 1, to a working model [[(M)]], with a transfer surface [[(42)]] which defines the circumferential position of the transfer aid [[(4)]], the transfer surface [[(42)]] being shaped to complement a reference form [[(27b, 24)]] on the extension piece [[(2)]]], wherein the transfer aid [[(4)]] has a base plate [[(40)]] in which the transfer surface [[(42)]] is arranged, the transfer aid [[(4)]] being able to be secured on the extension piece [[(2)]] by clamping and/or snap-fit means [[(45)]], and the base plate [[(40)]] having a form which can be anchored securely against rotation in an impression [[(93)]], in particular a non-cylindrical outer contour.

9. (currently amended) The transfer aid as claimed in claim 8, wherein the transfer surface [[(42)]] is part of a semicylindrical opening [[(41)]] in the base plate [[(40)]]].

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10. (currently amended) The transfer aid as claimed in claim 9, wherein a recess [[(46)]] is arranged in the transition area between the transfer surface [[(42)]] and the semicylindrical inner surface [[(47)]].

11. (currently amended) The transfer aid as claimed in ~~one of claims 8 through 10~~ claim 8, wherein the clamping and/or snap-fit means are formed by a circular lip [[(44)]] which is arranged on the base plate [[(40)]] and which has a second contour [[(45)]] via which the transfer aid [[(4)]] can be snapped and/or clamped onto a first contour [[(22)]] of the extension element [[(2)]].

12. (currently amended) The transfer aid [[(4)]] as claimed in ~~one of claims 8 through 11~~ claim 8, wherein the transfer aid [[(4)]] is in one piece, preferably made of a plastic material.

13. (currently amended) The transfer aid [[(4)]] as claimed in ~~one of claims 8 through 12~~ claim 8, wherein the opening [[(41)]] extends right through the base plate [[(40)]].

14. (currently amended) The transfer aid as claimed in ~~one of claims 8 through 13~~ claim 8, wherein the base plate [[(40)]] is provided with holes [[(43)]].

15. (currently amended) [The] A method comprising use of an extension piece [[(2)]] which can be machined, in particular ground, for a dental implant [[(1)]], in particular as claimed in ~~one of claims 1 through 7~~ claim 1, as a transfer part for transferring its own axial and circumferential position, and as a basis for a retention element [[(7)]].

16. (currently amended) A combination of a transfer aid [[(4)]] as claimed in ~~one of claims 8 through 14~~ and of an extension piece [[(2)]] as claimed in claim 8, and

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preferably of a dental implant [[(1)]], where the transfer surface [[(42)]] on the transfer aid [[(4)]] is designed complementing the reference surface [[(24)]] of the extension piece [[(2)]].

17. (currently amended) A method for taking an impression of the radial and axial position of at least one dental implant [[(1)]] implanted in a jaw bone [[(K)]] with an extension piece [[(2)]] fitted in it to a working model [[(M)]] and/or for producing a basis for a retention element [[(7)]], said method comprising the following steps:

- a) screwing the at least one extension piece [[(2)]] with a reference surface [[(24)]] as a basis for a retention element [[(7)]] into the implant or implants [[(1)]] with a predetermined first torque,
- b) producing an impression [[(93)]] of the situation of the implant [[(1)]] and of the extension piece [[(2)]] in the patient's mouth by applying an impression compound [[(90)]], the extension piece [[(2)]] leaving an impression in the impression compound and remaining connected to the implant [[(1)]] after removal of the impression compound [[(90)]] from the mouth,
- c) removing the extension piece [[(2)]] from the implant,
- d) repositioning the extension piece [[(2)]] in the correct position in the impression [[(93)]],
- e) before or after step d), screwing the extension piece or extension pieces [[(2)]] repositioned in the impression [[(93)]] into a manipulation implant [[(5)]] with a second torque,
- f) producing a working model [[(M)]] by casting the manipulation implant or implants [[(5)]] into a modeling compound [[(M4)]].

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18. (currently amended) The method as claimed in claim 17, wherein a transfer aid [[(4)]] is applied to the extension piece [[(2)]], in particular by clamping and/or screwing, before the removal of the impression [[(93)]] of the extension piece [[(2)]], and wherein the transfer aid [[(4)]] remains in the impression compound [[(90)]] when the impression [[(93)]] is produced.

19. (currently amended) The method as claimed in claim 17 [[or 18]], wherein the first predetermined torque is greater than the second torque, wherein in particular the first torque is approximately 35 Ncm, and wherein the second torque approximately corresponds to a manual screwing of the extension piece [[(2)]] onto the manipulation implant [[(5)]].

20. (currently amended) The method as claimed in ~~one of claims 17 through 20~~claim 17, wherein, in step a), the extension piece [[(2)]] is turned twice in succession into the implant [[(1)]].

21. (currently amended) The method as claimed in ~~one of claims 17 through 20~~claim 17, wherein the extension piece [[(2)]] is machined, in particular ground, after the impression has been taken.

22. (currently amended) The method as claimed in claim 21, wherein a position marking [[(L)]] is arranged on the extension piece [[(2)]] before the machining, and wherein the extension piece [[(2)]], for machining, is removed from the working model [[(M)]] and in particular fitted onto a holder [[(6)]] and machined on the latter.

23. (currently amended) The method as claimed in ~~one of claims 17 through 22~~claim 17, wherein a retention element [[(7)]] for mounting a detachable tooth

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replacement is applied to the machined extension piece [[(2)]] on a plateau surface [[(28)]].

24. (currently amended) The method as claimed in claim 23, wherein the machined extension piece [[(2)]] is screwed into the implant [[(1)]] with the first predetermined torque.

25. (currently amended) The method as claimed in claim 23 [[or 24]], wherein, upon definitive screwing of the machined extension piece [[(2)]] into the implant [[(1)]], a spreading cone [[(8)]] is inserted between an inner cone [[(12)]] of the implant [[(1)]] and the extension piece [[(2)]].

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